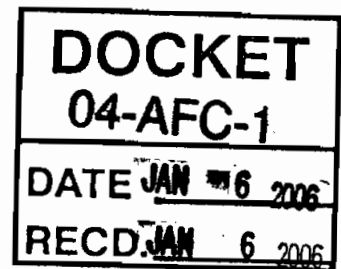


**From:** Bill Pfanner  
**To:** John.Carrier@ch2m.com; Kubick, Karen; Steve De Young  
**Date:** 1/6/2006 11:37:02 AM  
**Subject:** SFERP Cultural Informal Data Request



Karen/John/Steve: Attached in an Informal Data Request from our Cultural Resources staff. Sorry I did not get this information into the proper format. If you have questions, please call Beverly at (916) 654-4840.

Bill

>>> Beverly Bastian 12/29/05 9:17 AM >>>

Bill,

I will definitely need to change my FSA to reflect the proposed change in the location of the process water pipeline route. In order to assess the impacts of this change to cultural resources, I will also need information additional to that provided by the applicant in the December 20 letter you gave me.

Did the applicant provide you with a description of the trench they will excavate for this new pipeline? I need dimensions, depth, and location of any anticipated use of directional drilling or jack and bore. I would also like to know if their new trench follows any existing--already disturbed--utility lines, or if they are going through previously undisturbed soils. (yes, I realize it's all fill). Are they going down a particular side of the street or down the middle? Does the location in the street change depending on what street they are on? I also have some questions about a possible buried cultural resource, the old Third Street Trestle, with which their route coincides for the 400 feet it runs along Third Street.

If you have any additional information on the pipeline, I would like to have copies. It is likely that I will also need to make some Data Requests to the applicant.

Bev

**CC:** Beverly Bastian; Eileen Allen

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ORIGINAL MAILED FROM SACRAMENTO ON 1/6/06

*NB*

**BEFORE THE ENERGY RESOURCES CONSERVATION AND DEVELOPMENT COMMISSION OF THE  
STATE OF CALIFORNIA**

**APPLICATION FOR CERTIFICATION  
FOR THE SAN FRANCISCO ELECTRIC  
RELIABILITY PROJECT**

**Docket No. 04-AFC-01  
PROOF OF SERVICE  
\*Revised 8/03/05**

**DOCKET UNIT**

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### **DECLARATION OF SERVICE**

I, **Nathan Braden** declare that on **January 6, 2006**, I deposited copies of the attached **SFERP Informal Data Request—Cultural for San Francisco Electric Reliability Project**, in the United States mail at **Sacramento, California** with first class postage thereon fully prepaid and addressed to those identified on the Proof of Service list above. Transmission via electronic mail was consistent with the requirements of California Code of Regulations, title 20, sections 1209, 1209.5, and 1210. I declare under penalty of perjury that the foregoing is true and correct.

  
[signature]

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Dick Ratliff  
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Margret J. Kim  
Public Adviser  
MS-12

# **SAN FRANCISCO ELECTRIC RELIABILITY PROJECT (04-AFC-01)**

**Informal Data Request - January 4, 2006**

**Technical Area: Soil and Water Resources**

**Authors: Mark Lindley and Vince Geronimo (PWA)**

<b>DOCKET</b> <b>04-AFC-1</b>	
<b>DATE</b>	<b>JAN 4 2006</b>
<b>RECD</b>	<b>JAN 6 2006</b>

## **BACKGROUND**

The City of San Francisco has proposed a change to the supply source for treatment process water and cooling water identified in Supplement A of the San Francisco Electric reliability Project (04-AFC-1) in a letter to the CEC on 12/20/05. The new supply source will be treated secondary effluent from the Southeast Waste Water Treatment Plant (SEWWTP). The amendment resulted in a change to the on-site treatment requirements from primary, secondary, and tertiary treatment to a system that requires only tertiary treatment. The process will still result in the production of Title 22-quality recycled water.

The secondary effluent from the SEWWTP has been identified as having high levels of salinity as a result of infiltration of Bay waters into the sewers and box structures near the water (Informal Data Response, Set 6A Questions S&W 6-3 & 6-4). The facility description, in the 12/20/05 CCSF letter, does not provide sufficient information to address the high levels of salinity in the effluent. Staff requires a more in depth description of the linear facilities, effluent-water supply constituents and demand, tertiary treatment process, discharge requirements, and regulations.

## **DATA REQUESTS**

### **Supply**

- Provide a detailed description of the water supply connection; identify major construction constraints for the delivery pipeline to the site.
- Provide the physical and chemical characteristics of the treated secondary effluent from the SEWWTP – Provide a table similar to the Estimate of Wastewater Water Quality (Table 8.14-8 in Supplement A). Provide the range of expected Wastewater Water Quality in the table.
- Provide the Average and Maximum Daily and Annual Water Demand from the SEWWTP source.
- Provide the estimated the annual maximum and minimum peak flowrate in the SEWWTP effluent line discharging to the Bay?

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ORIGINAL MAILED FROM SACRAMENTO ON 1/06/06**  
*NA*

- Provide a description of the hydraulic pressure and pressure fluctuations anticipated at the connection to the SEWWTP effluent forcemain?
- Provide a description of the SEWWTP effluent to provide continuous service to SFERP? Are interruptions in service expected due to annual maintenance or other expected or unexpected conditions?
- During extreme runoff events, the SEWWTP may discharge untreated or partially treated runoff and wastewater that may not meet secondary treatment standards to San Francisco Bay. Will SFERP receive partially treated effluent during these events? If so, how will SFERP treat water from SEWWTP that does not meet the secondary treatment standards?
- Provide a revised estimate for annual back-up water anticipated as a result of the change in source water and change to the treatment process.
- Will fresh supplies be blended with product water?
- Provide a new Will-Serve Letter from SFPUC that identifies the new supply source. The letter should acknowledge the point of connection to existing SFPUC infrastructure.

### **Tertiary Treatment Process**

- Provide a detailed description of the ultra-filtration and disinfection pretreatment system.
- Provide a detailed description of the single stage reverse osmosis system.
- Provide a description of the chemicals required for onsite tertiary treatment of the treated secondary effluent from the SEWWTP not otherwise identified in Supplement A. Attach MSDS if necessary.
- Provide the following revised figures based on the change to the onsite treatment process:
  - Site Layout
  - Water Balance Diagram

### **Wastewater**

- Provide an estimate of the Average and Maximum Daily and Annual and Maximum Annual Operational Wastewater Discharge from SFERP. Provide a table similar to the Table 8.14-7 in Supplement A.

- As a result of the high salinity levels in the effluent: Provide a description of the method to be used to dispose of desalting concentrates and brines resulting from the reverse osmosis system and discuss the regulatory requirements.
- Provide a description of the wastewater discharge location and requirements of the tertiary treatment facility. Describe the method of disposal and verify that the wastewater water quality meets the SFERP planned discharge permit requirements.

## **Regulations**

- Title 22 of the CCR - Verify implementation procedures by DHS & RWQCB's Water Reuse Permit Program (General Water Reuse Order 96-011) will be established through sampling, testing, and reporting.
- If the treatment process will discharge to the CCSF Combined Sewer System, verify that the discharge will meet the discharge permit requirements of Article 4.1 of the City's Public Works Code. Limitations for industrial discharges to the CCSF Combined Sewer System were earlier presented in Table 8.14-2 in Supplement A.
- Has DHS been notified of the change to the proposed water supply and planned treatment facility? Verify that the Engineer's Report will be completed for the new purification system?

## **Construction SWPPP**

Staff has not reviewed the revised SWPPP. Discharge of eroded soils impacted by hazardous levels of Arsenic, TPH, and PAHs during construction at the site could result in potentially significant water quality impacts to the Bay. Previous estimates of soil erosion from the site during construction provided in the AFC indicate that there is a potential for 16 to 18 tons of soil to erode from the site during construction.

The recently updated stormwater management plans for the site include use of a vegetated swale to discharge runoff directly to San Francisco Bay. A properly designed and maintained vegetated swale should be a sufficient post-construction stormwater quality BMP. However, during construction more extensive erosion control and treatment control BMPs will be required to prevent discharge of eroded soils to the Bay. In addition, the construction SWPPP should also provide details for how excavated soils and groundwater pumped while dewatering excavations will be handled during construction to prevent discharge to the Bay. Treatment control measures including a sediment basin and/or a multi-stage tank with media filtration may be required to prevent



discharge of eroded soils and groundwater with hazardous levels of Arsenic, TPH, and PAHs.

- Please submit a revised SWPPP that presents detailed construction BMPs that will limit soil erosion and provide effective treatment control to prevent discharge of hazardous soils and groundwater from the site.

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### DECLARATION OF SERVICE

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